



AMENDMENTS TO SPECIFICATION

Please delete in its entirety the previous abstract and insert therefor the replacement abstract appearing on a separate page.

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REPLACEMENT ABSTRACT
ABSTRACT OF THE DISCLOSURE

5 A magnetic thin film includes an iron nitride thin film
having a nitrogen martensite α' phase with α (002) surface
formed on a substrate. The iron nitride thin film is produced on
the substrate in a manner so as to permit diffraction rays from a
5 γ' phase to be observed, the α' phase having diffraction rays
observed from only the α (002) surface. Alternatively, a
magnetic thin film includes iron (α - Fe) thin films and iron
nitride thin films alternately deposited on the substrate. The
iron nitride thin films have a nitrogen martensite α' phase with
5 α (002) surface. The α' phase has diffraction rays observed
only from the α (002) surface. A coercive force of the thin
film structure is substantially 1.0 Gauss.

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